

**AMENDMENTS TO THE CLAIMS**

Claims 1-10 (Cancelled).

11. (New): An impurity disposal system for removing and disposing impurities contained in a target gas, comprising:
  - an impurity removing unit that removes an impurity gas from the target gas while the target gas is in a gaseous state;
  - a compressing unit that compresses the impurity gas to produce compressed impurity gas;
  - a drying unit that removes water from the compressed impurity gas to produce a dried compressed impurity gas; and
  - a disposing unit that disposes the dried compressed impurity gas into an underground aquifer.
12. (New): The impurity disposal system according to claim 11, wherein the target gas includes natural gas.
13. (New): The impurity disposal system according to claim 11, wherein the target gas includes a mixture of gas and oil.
14. (New): The impurity disposal system according to claim 11, wherein the impurity gas includes carbon dioxide.

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15. (New): The impurity disposal system according to claim 11, wherein the impurity gas includes hydrogen sulfide.
16. (New): The impurity disposal system according to claim 11, further comprising a driving unit configured to drive the compressing unit.
17. (New): The impurity disposal system according to claim 16, wherein the driving unit includes a gas turbine.
18. (New): The impurity disposal system according to claim 16, wherein the driving unit includes a gas engine.
19. (New): The impurity disposal system according to claim 16, wherein the driving unit includes a steam turbine.
20. (New): The impurity disposal system according to claim 16, further comprising:  
a carbon dioxide removing apparatus that removes carbon dioxide produced by the driving unit; and  
a mixing unit that mixes the carbon dioxide with the impurity gas, wherein compressing unit compresses a mixture of the carbon dioxide and the impurity gas.

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21. (New): The impurity disposal system according to claim 17, wherein the gas turbine includes a boiler that recovers a waste heat discharged from the gas turbine, wherein steam produced by the boiler is used for a heat source during removal of impurities.
22. (New): The impurity disposal system according to claim 18, wherein the gas engine includes a boiler that recovers a waste heat discharged from the gas engine, wherein steam produced by the boiler is used for a heat source during removal of impurities.
23. (New): A method of removing and disposing impurities contained in a target gas, comprising:
  - removing an impurity gas from the target gas while the target gas is in a gaseous state;
  - compressing the impurity gas to produce compressed impurity gas;
  - removing water from the compressed impurity gas to produce a dried compressed impurity gas; and
  - disposing the dried compressed impurity gas into an underground aquifer.
24. (New): The method according to claim 23, wherein the target gas includes natural gas.
25. (New): The method according to claim 23, wherein the target gas includes a

mixture of gas and oil.

26. (New): The method according to claim 23, wherein the impurity gas includes carbon dioxide.

27. (New): The method according to claim 23, wherein the impurity gas includes hydrogen sulfide.

28. (New): The method according to claim 23, wherein the compressing is performed using a gas turbine.

29. (New): The method according to claim 23, wherein the compressing is performed using a gas engine.

30. (New): The method according to claim 23, wherein the compressing is performed using a steam turbine.

31. (New): The method according to claim 23, further comprising:  
removing carbon dioxide produced by a device that drives a compressor that performs the compressing; and  
mixing the carbon dioxide with the impurity gas, wherein the compressing includes

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compressing a mixture of the carbon dioxide and the impurity gas.

32. (New): The method according to claim 23, further comprising:  
collecting steam produced by a boiler that recovers a waste heat discharged from the gas  
turbine; and  
using the steam as a heat source during removal of impurities.